

FIG.

000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000

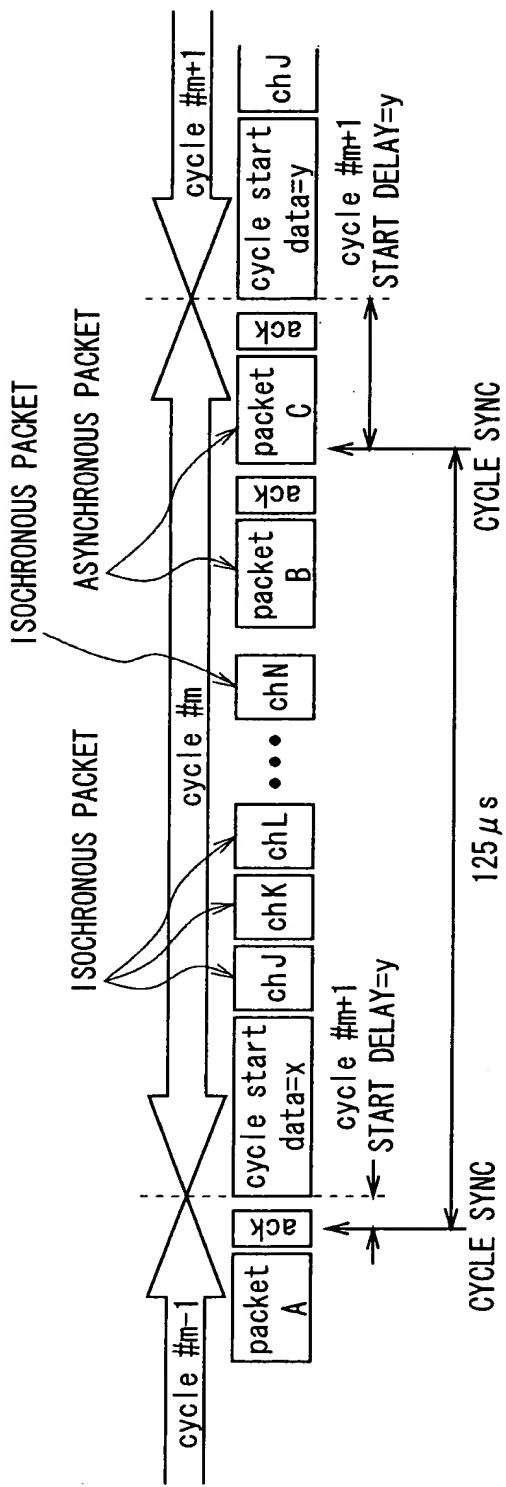


FIG. 2

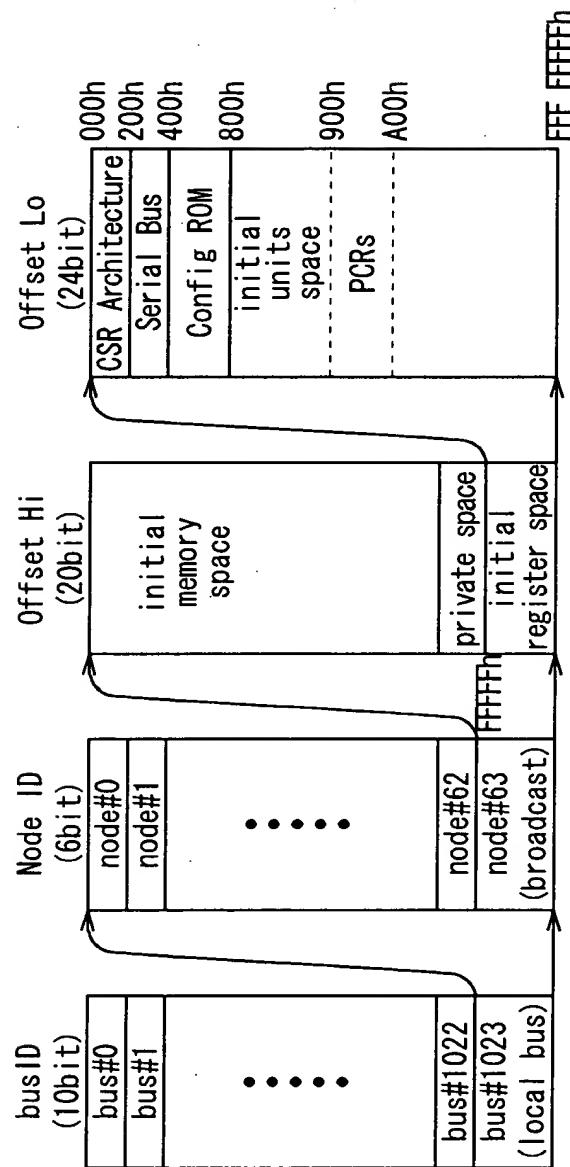


FIG. 3

FIG. 4

| OFFSET | NAME | OPERATION |
|-----------|---------------------|---|
| 000h | STATE_CLEAR | CONDITION AND CONTROL INFORMATION |
| 004h | STATE_SET | SET STATE-CLEAR BIT |
| 008h | NODE_IDS | SHOW 16-BIT NODE ID |
| 00Ch | RESET_START | START COMMAND RESET |
| 018h-01Ch | SPLIT_TIMEOUT | MEASURE THE MAXIMUM TIME OF SPLIT |
| 200h | CYCLE_TIME | CYCLE TIME |
| 210h | BUSY_TIMEOUT | DEFINE RETRY CONTROL |
| 21Ch | BUS_MANAGER | SHOW ID OF BUS MANAGER |
| 220h | BANDWIDTH_AVAILABLE | SHOW BANDWIDTH AVAILABLE TO ISYNCHRONOUS COMMUNICATIONS |
| 224h-228h | CHANNELS_AVAILABLE | SHOW USAGE CONDITION OF EACH CHANNEL PAGE |

info_length

| | | |
|------------------------------|------------|---------------|
| info_length | crc_length | rom_crc_value |
| bus_info_block | | |
| root_directory | | |
| unit_directories | | |
| root & unit leaves | | |
| vendor_dependent_information | | |

FIG. 5

| | | | |
|----------------|---------------------------|-----------------------|------------------------------------|
| 400h | 04h | crc_length | rom_crc_value |
| bus_info_block | | | |
| 404h | "1394" | | |
| 408h | lrmc cmc isc bmc | reserved | crc_clk_acc max_rec reserved |
| 40Ch | Company_ID | | Chip_ID_hi |
| 410h | Chip_ID_lo | | |
| Root_directory | | | |
| 414h | root_length | | CRC |
| 418h | 03h | module_vender_id | |
| 41Ch | 0ch | node_capabilities | |
| 420h | 8Dh | node_unique_id offset | |
| 428h | D1h | unit_directory offset | |
| • • • | | Optional. | |
| Unit_directory | | | |
| | unit_directory_length | | CRC |
| | 12h | unit_spec_id | |
| | 13h | unit_sw_version | |
| | | Optional. | |

FIG. 6

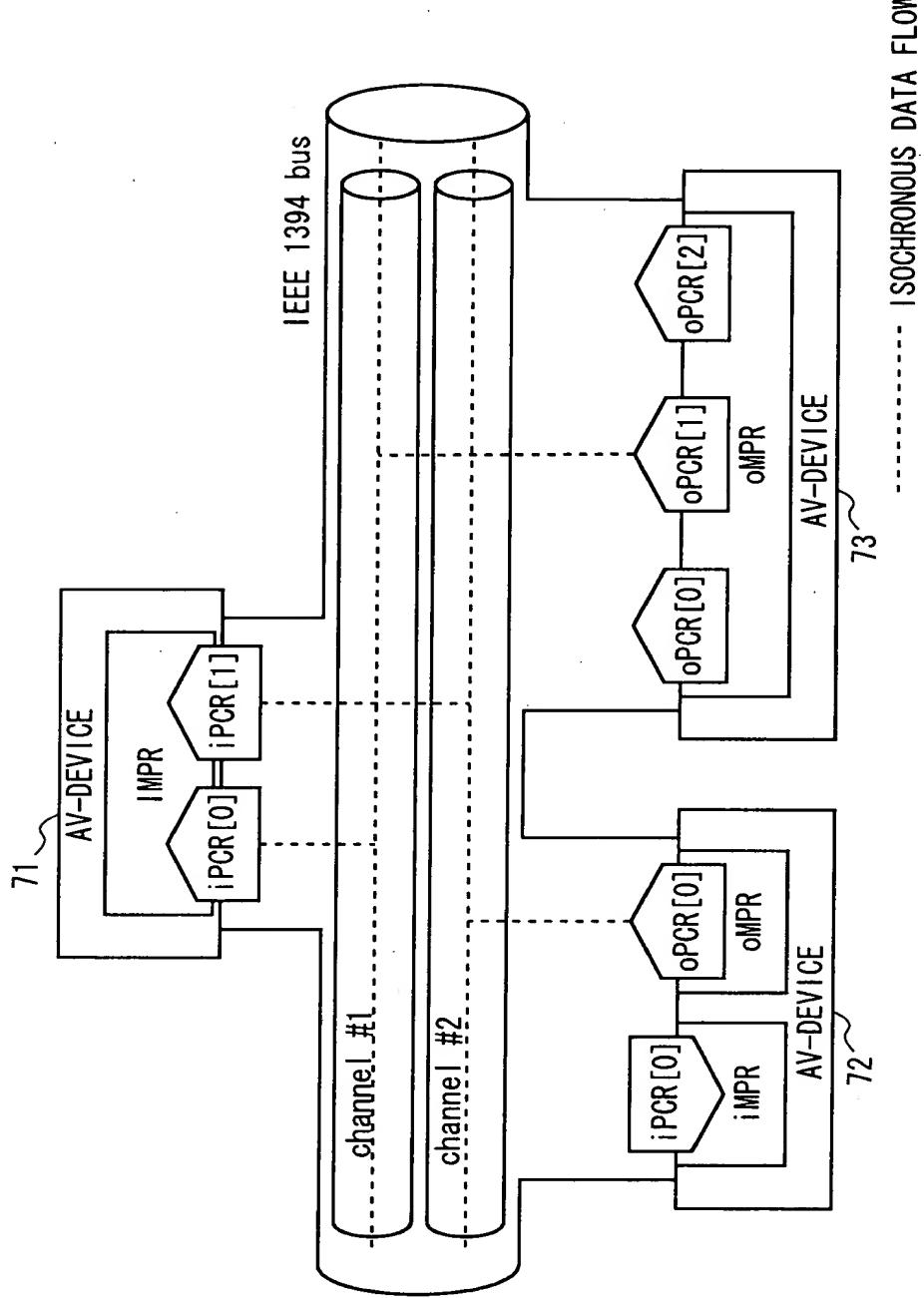
| | |
|------|----------------------------------|
| 900h | Output Master Plug Register |
| 904h | Output Plug Control Register #0 |
| 908h | Output Plug Control Register #1 |
| • | • |
| • | • |
| • | • |
| 97Ch | Output Plug Control Register #30 |
| 980h | Input Master Plug Register |
| 984h | Input Plug Control Register #0 |
| 988h | Input Plug Control Register #1 |
| • | • |
| • | • |
| • | • |
| 9FCh | Input Plug Control Register #30 |

FIG. 7

o_{MPR}

| o_{MPR} | | data rate capacity | | broadcast channel base | | non-persistent extension field | | persistent extension field | | reserved | | number of output plugs | |
|---------------|--|--------------------------------------|--|-----------------------------------|--|--------------------------------|--|----------------------------|--|-----------|--|------------------------|--|
| 2 | | 6 | | 6 | | 6 | | 6 | | 3 | | 5 (bit) | |
| $o_{PCR} [n]$ | | on-line broadcast connection counter | | point-to-point connection counter | | reserved | | channel number | | data rate | | overhead ID | |
| 1 | | 1 | | 6 | | 2 | | 6 | | 2 | | 4 | |
| i_{MPR} | | data rate capacity | | reserved | | non-persistent extension field | | persistent extension field | | reserved | | number of output plugs | |
| 2 | | 6 | | 6 | | 6 | | 6 | | 3 | | 5 (bit) | |
| $i_{PCR} [n]$ | | on-line broadcast connection counter | | point-to-point connection counter | | reserved | | channel number | | reserved | | 16 (bit) | |
| 1 | | 1 | | 6 | | 6 | | 2 | | 6 | | 16 (bit) | |

FIG. 9



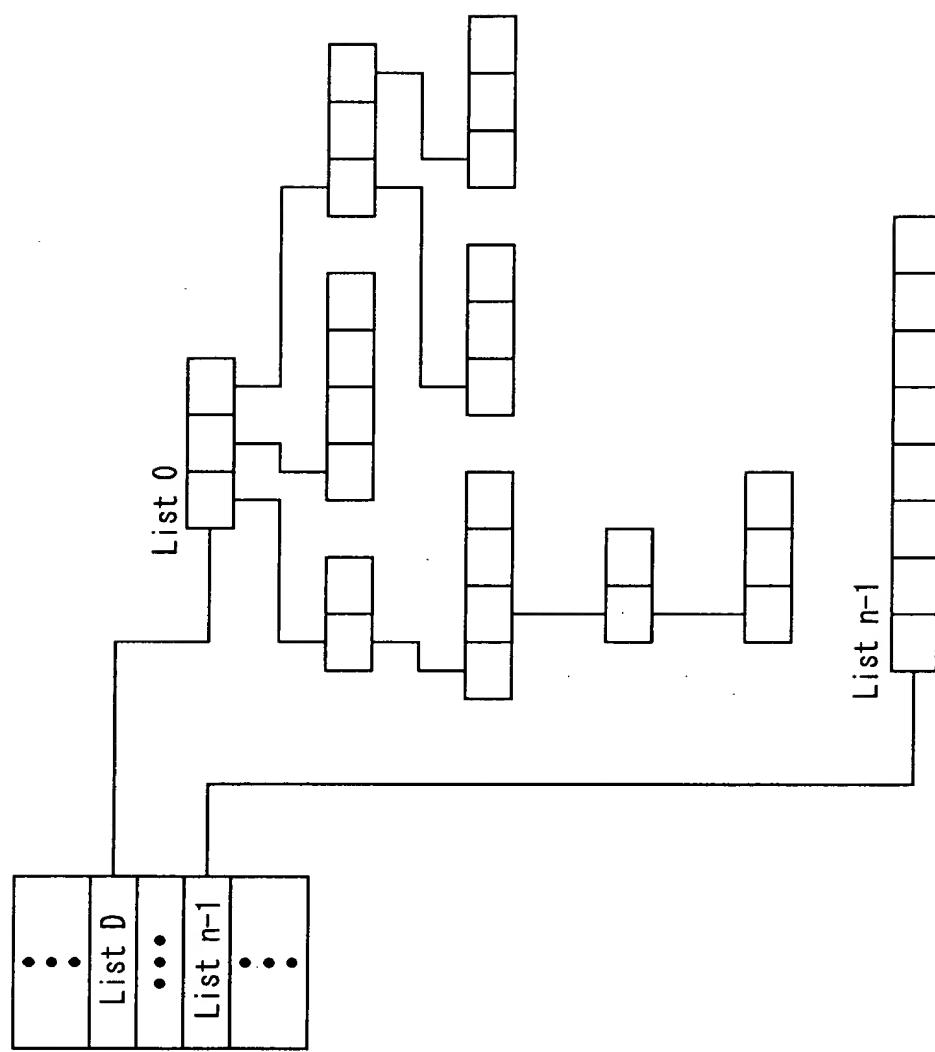


FIG. 10

| The General Subunit Identifier Descriptor | |
|---|------------------------------------|
| address | contents |
| 00 0016 | descriptor_length |
| 00 0116 | |
| 00 0216 | generation_ID |
| 00 0316 | size_of_list_ID |
| 00 0416 | size_of_object_ID |
| 00 0516 | size_of_object_position |
| 00 0616 | number_of_root_object_lists(n) |
| 00 0716 | |
| 00 0816 | root_object_list_id_0 |
| • | |
| • | |
| • | • |
| • | |
| • | root_object_list_id_n-1 |
| • | |
| • | subunit_dependent_length |
| • | |
| • | subunit_dependent_information |
| • | |
| • | manufacturer_dependent_length |
| • | |
| • | manufacturer_dependent_information |
| • | |

FIG. 11

| generation_ID values | |
|----------------------|--|
| generation_ID | meaning |
| 0016 | Data structures and command sets as specified in the AV/C General Specification, version 3.0 |
| all others | reserved for future specification |

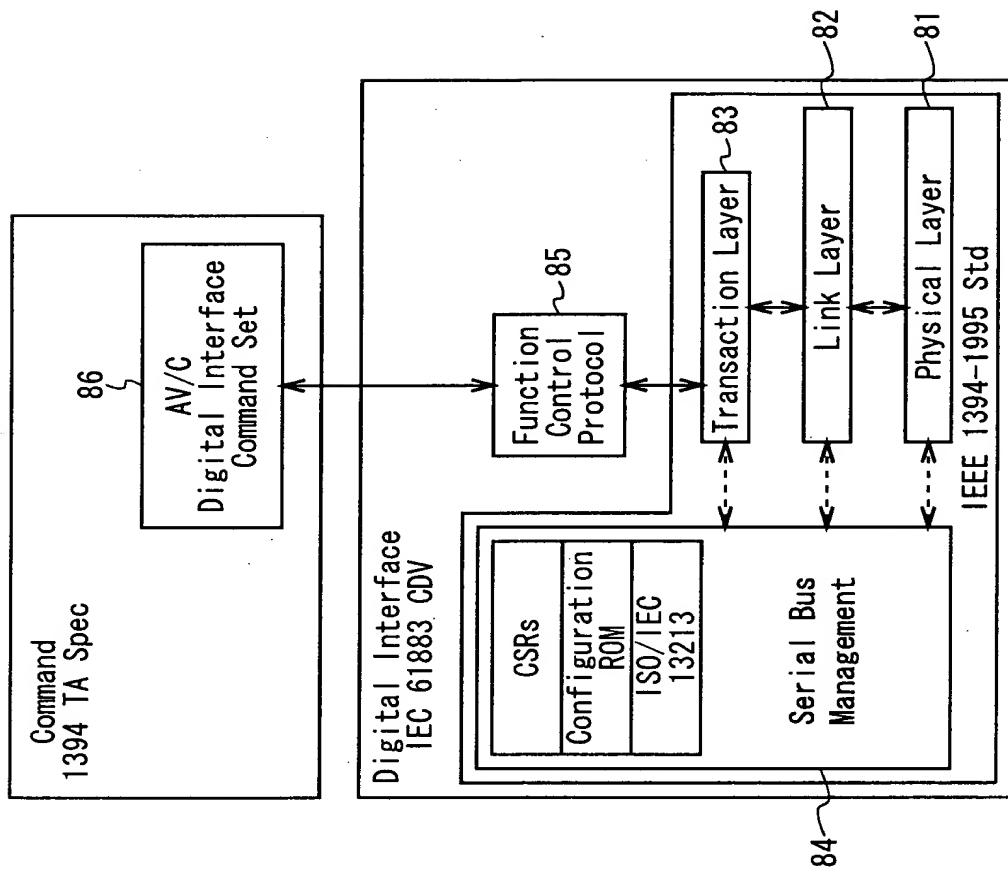
FIG. 12

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| List ID Value Assignment Ranges | |
|---|------------------------|
| range of values | list definition |
| 0000 ₁₆ -0FFF ₁₆ | reserved |
| 1000 ₁₆ -3FFF ₁₆ | subunit-type dependent |
| 4000 ₁₆ -FFFF ₁₆ | reserved |
| 1 0000 ₁₆ -max list ID value | subunit-type dependent |

FIG. 13

FIG. 14



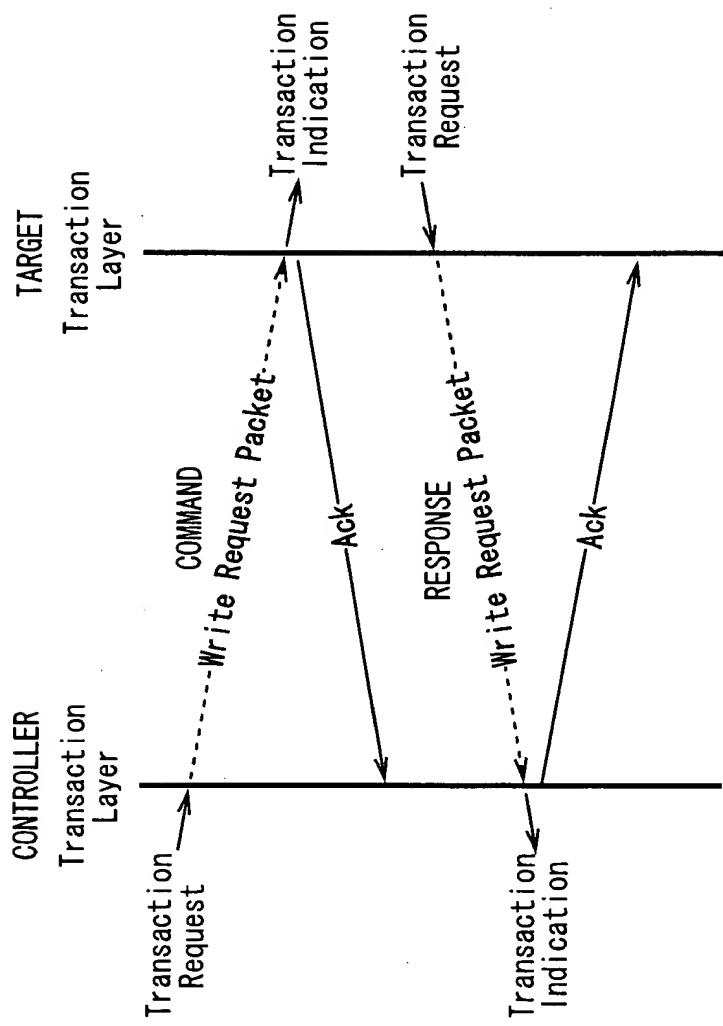


FIG.15

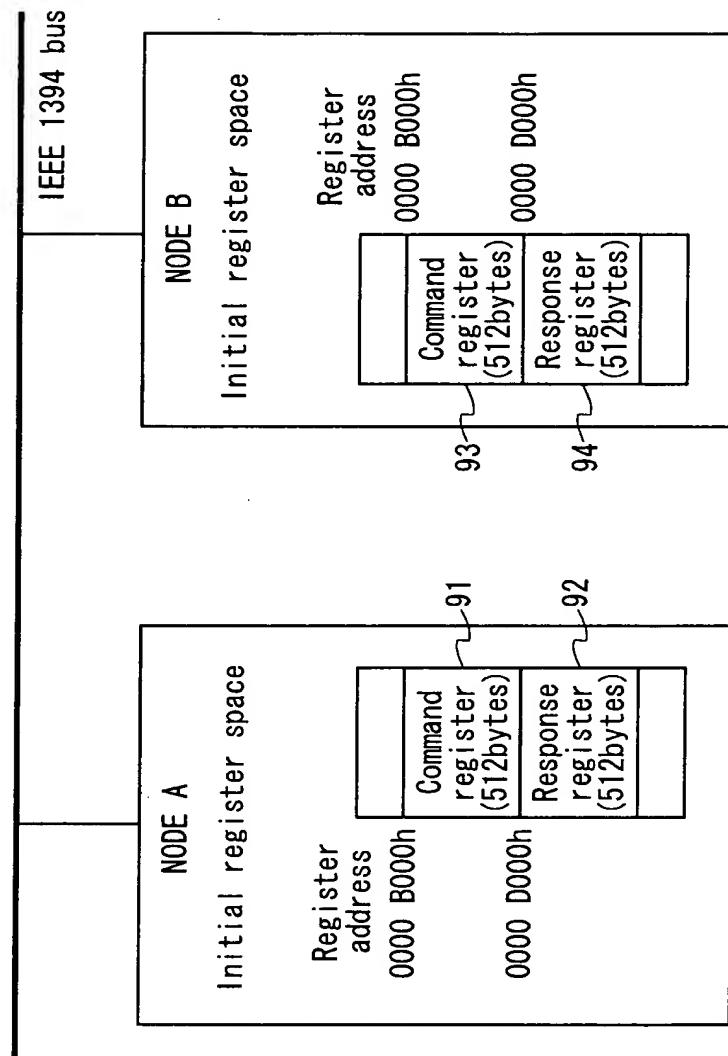


FIG. 16

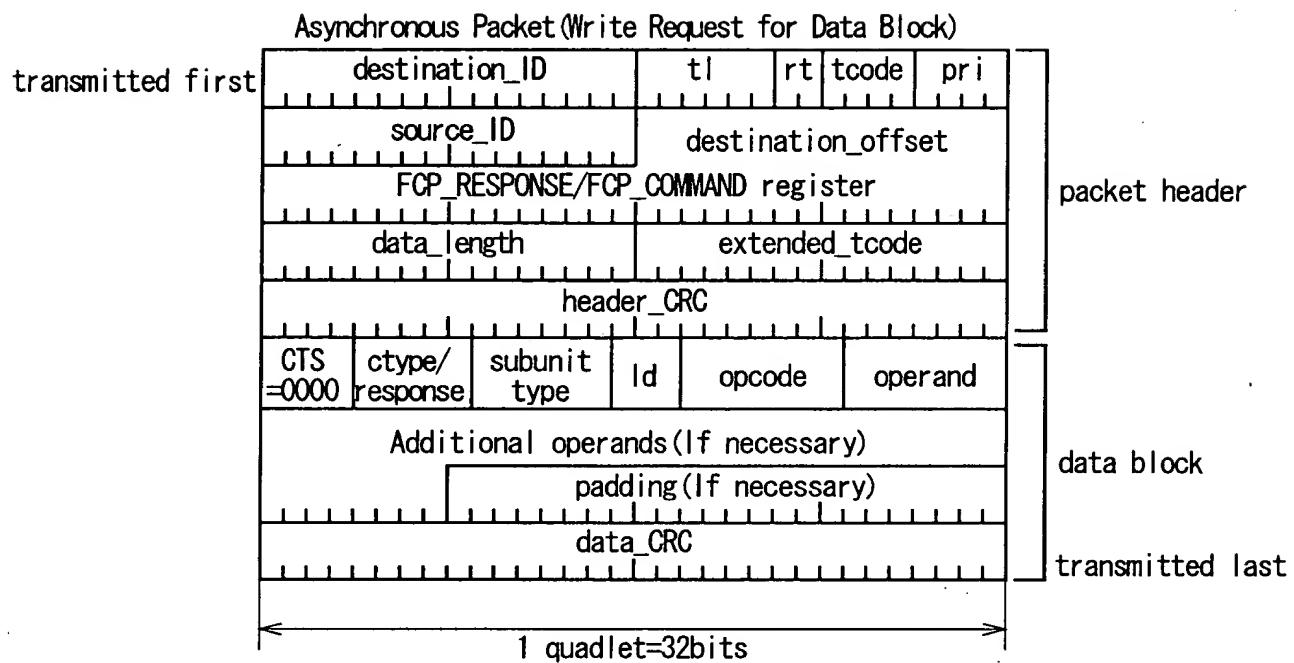


FIG. 17

| type/response | | subunit_type | | opcode: Operation Code |
|---------------|---|---|---|------------------------|
| Command | 0000 CONTROL 0001 STATUS 0010 SPECIFIC INQUIRY 0011 NOTIFY 0100 GENERAL INQUIRY 0101 } (reserved for future specification) 0111 } | 00010 Video monitor (reserved) 00011 Disc recorder/ Player 00100 Tape recorder/ Player 00101 Tuner 00111 Video Camera (reserved) 11100 Vendor unique 11101 reserved 11110 Subunit type extended to next byte 11111 Unit | 00h VENDOR-DEPENDENT 50h SEARCH MODE 51h TIMECODE 52h ATN 52h OPEN MIC 61h READ MIC 62h WRITE MIC C1h LOAD MEDIUM C2h RECORD C3h PLAY C4h WIND ? | |
| Response | 1000 NOT IMPLEMENTED 1001 ACCEPTED 1010 REJECTED 1011 IN TRANSITION 1100 IMPLEMENTED/STABLE 1101 CHANGED 1110 (reserved for future specification) 1111 INTERIM | | | |

FIG. 18A

FIG. 18B

FIG. 18C

| AV/C | control | tape reorder | PLAY | FORWARD |
|----------|-------------|--------------|--|-------------------------------------|
| CTS=0000 | ctypes=0000 | /player | iD=100 opcode=000 subunit type=00100 | iD=100 opcode=03h operand=75h |

FIG. 19A

| AV/C | accepted | tape recorder | PLAY | FORWARD |
|----------|---------------|----------------------------------|--------------------------------|-------------|
| CTS=0000 | response=1001 | /player subunit type=00100 | id=1D0 id=000 opcode=C3h | operand=75h |

FIG. 19B

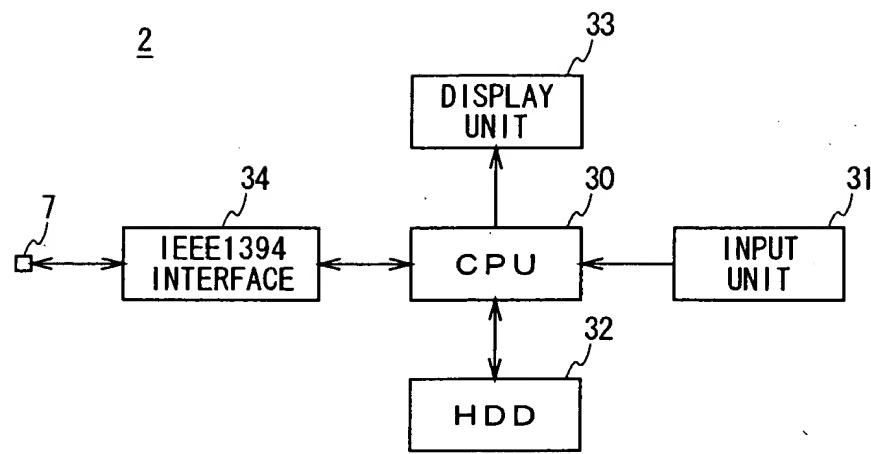


FIG. 20

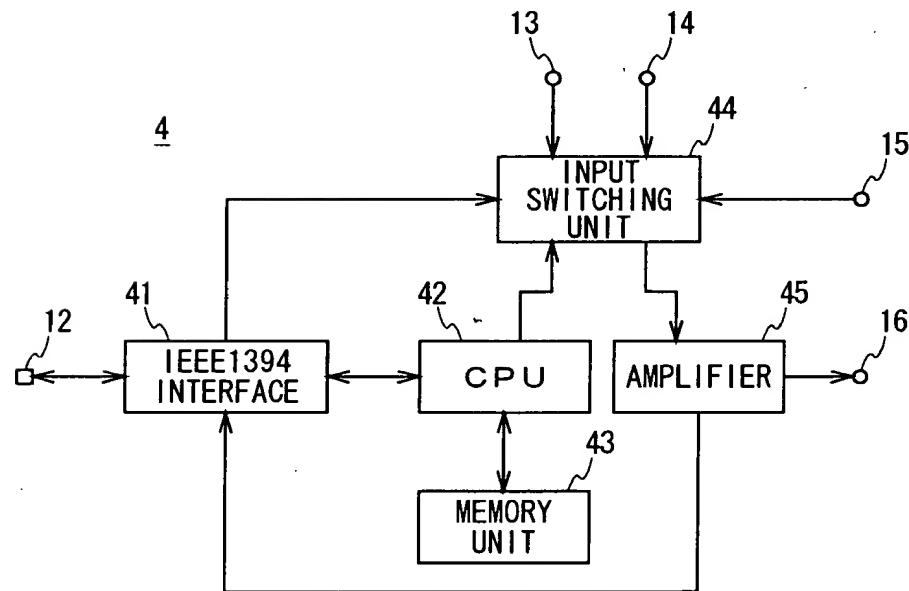


FIG. 21

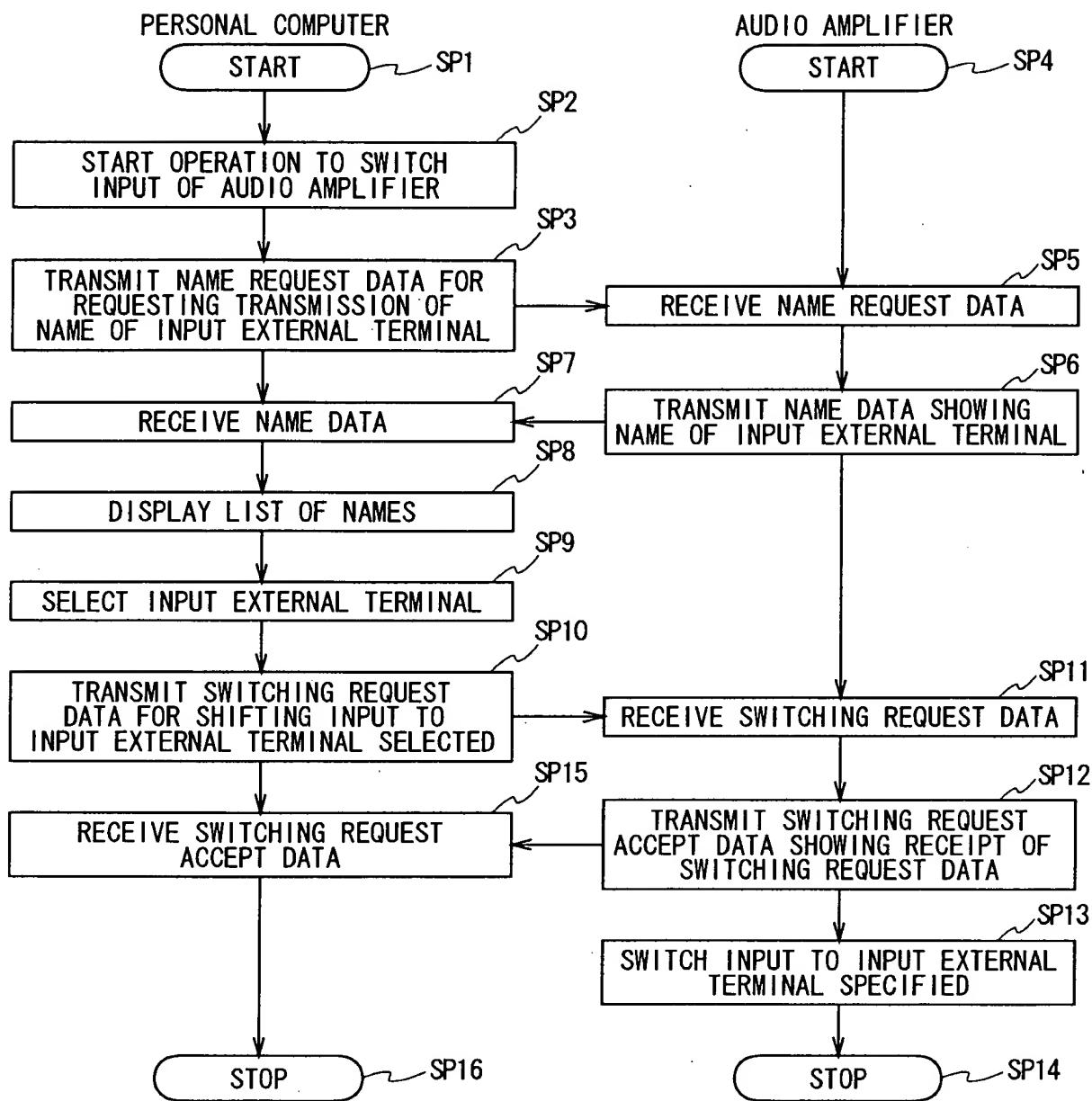


FIG. 22

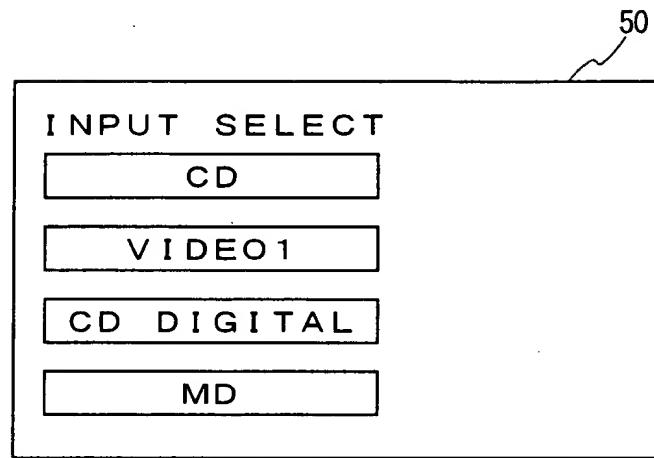


FIG. 23

FIG. 24A

INPUT SELECT CD

FIG. 24B

INPUT SELECT VIDEO1

FIG. 24C

INPUT SELECT CD DIGITAL